

COMMENTS AND RESPONSE

In view of the comments below, Applicants respectfully requests that the Examiner reconsider the present application including rejected claims, as amended, and withdraw the claim rejections.

Drawings

The Examiner required new corrected drawings be filed in this application because informal drawings had previously been filed.

With this response, and in accordance with the Examiner's request, Applicants have submitted formal copies of the originally-filed informal drawings in this application.

The Examiner objected to Figures 1A, 1B, 2, 3, 4A, 4B, and 5A-5C. In particular, the Examiner requested that the Applicant designate the above Figures with a legend such as --Prior Art--.

By this response, Applicants submit proposed drawing corrections for Figures 1A, 1B, 2, 3, 4A, 4B, and 5A-5C adding the legend "Related Art." This shows that each of these drawings was listed in the portion of the specification entitles "Description of Related Art."

Applicants respectfully request that the Draftsperson approve these amended drawings. Upon approval of these amended drawings, Applicants will submit formal copies of these drawing sheets.

Based on the proposed drawing corrections provided with this response, Applicants submit that they have fully responded to the Examiner's objection to the drawings and ask that the objection be withdrawn.

Specification

The Examiner objected to the specification based on a number of informalities. In particular, the Examiner required the status of cited applications be updated. Specifically, the Examiner required that the designation "XX/XXX,XXX" be replaced with the correct application serial number as appropriate.

By this response Applicants have made the appropriate amendments to fill in all known serial numbers and correct the listing to reflect actually-filed applications.

For at least the reasons given above, applicants submit that all of the informalities noted by the Examiner have been corrected. Applicants therefore respectfully request that the Examiner withdraw the objection to the specification.

Objection to the Claims

The Examiner has objected to claims 1-26 because of the informalities. In particular, the Examiner requested the Applicant define the T_s in the claims.

By this response Applicants have amended claims 1, 10, 17, and 26 to recite that T_s is a center-to-center clock period for the wavelets in the local ultra wide bandwidth signal. Support for this amendment can be found, for example, in the Applicants' specification on page 15, lines 6-10, and in Applicants' FIG. 8.

No new matter is being added with these amendments. In addition, these amendments are being made solely to clarify what was meant by the recitation of the term T_s , and in no way should further limit the scope of these claims, particularly under the doctrine of prosecution history estoppel, as further defined in *Festo Corp. v. Shoketsu Kinzoku Kogyo Kabushiki Co.*, Ltd., 535 U.S. 722 (May 28, 2002). The term T_s was fully described in the specification, and

would have been understood to have the meaning added to the claims, even absent this amendment. Therefore, the amendments do not serve to limit the scope of the claims.

Based on at least the reasons given above, Applicant respectfully requests that the Examiner withdraw the objection of claims 1-26.

Information Disclosure Statements

Along with the Office Action dated May 19, 2004, the Examiner returned a number of initialed lists of submitted documents. However, in the list dated April 5, 2004, the Examiner did not initial document AD, PCT Application No. WO 01/93441 A1.

Applicants respect request that the Examiner provide them with a copy of this page with this document initialed to indicate that the Examiner has considered it.

In addition, Applicants also submitted an Information Disclosure Statement on May 27, 2004, citing a number of co-pending patent documents. Applicants also respectfully request that the Examiner provide copies of the citation forms properly initialed to indicate that these documents were considered by the Examiner.

Appl. No. 09/685,200
Amendment dated July 19, 2004
Reply to Office Action of May 19, 2004

Conclusion

If the Examiner has any suggestions, comments, or questions, calls are welcome at the telephone number below.

Although it is not anticipated that any additional fees are due or payable, the Commissioner is hereby authorized to charge any fees that may be required to Deposit Account No. **50-1147**.

Respectfully Submitted,



Brian C. Altmiller
Reg. No. 37,271

Date: July 19, 2004

Posz & Bethards, PLC
11250 Roger Bacon Drive
Suite 10
Reston, VA 20190
Phone (703) 707-9110
Fax (703) 707-9112
Customer No. 23400

1/7



Related Art

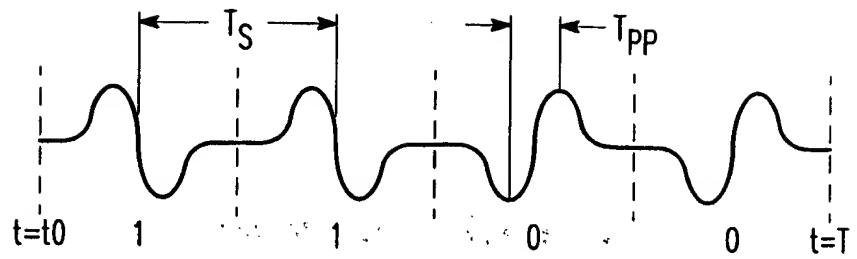


FIG. 1A

Related Art

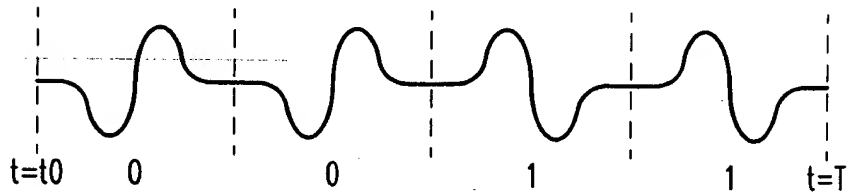
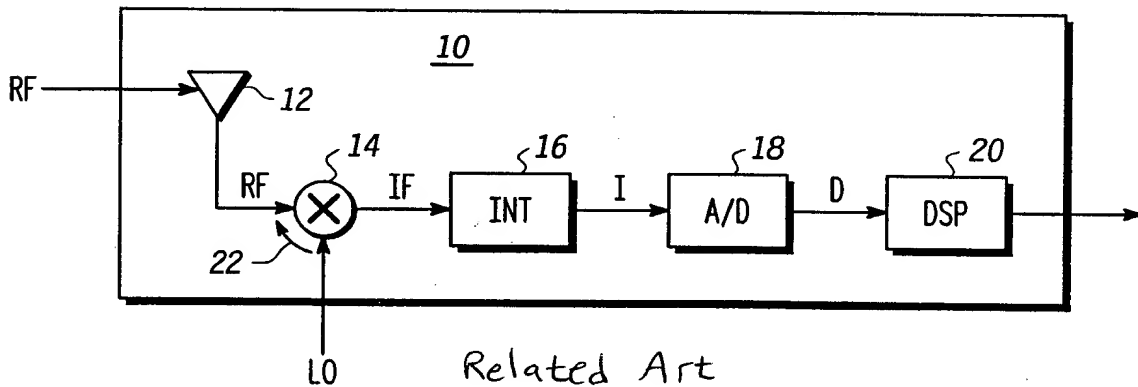


FIG. 1B

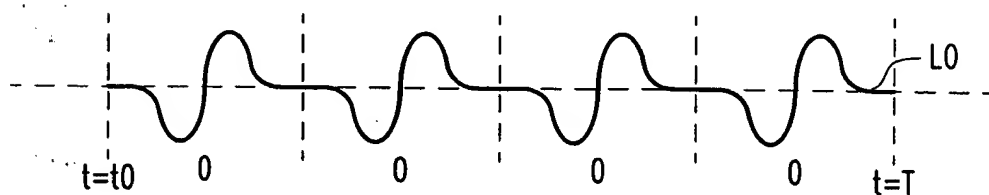
approved

sw



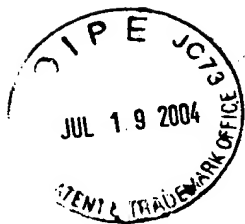
Related Art

FIG. 2



Related Art

FIG. 3



2/7

Related Art

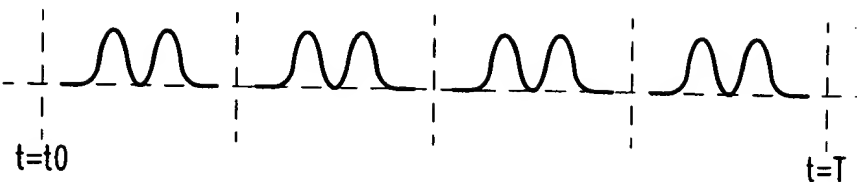


FIG. 4A

Related Art

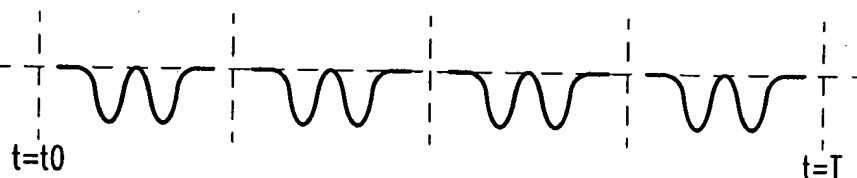


FIG. 4B

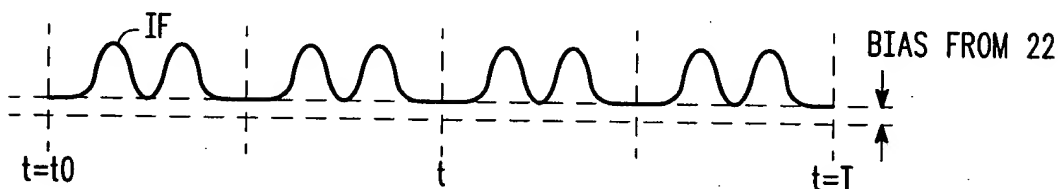


FIG. 5A

Related Art

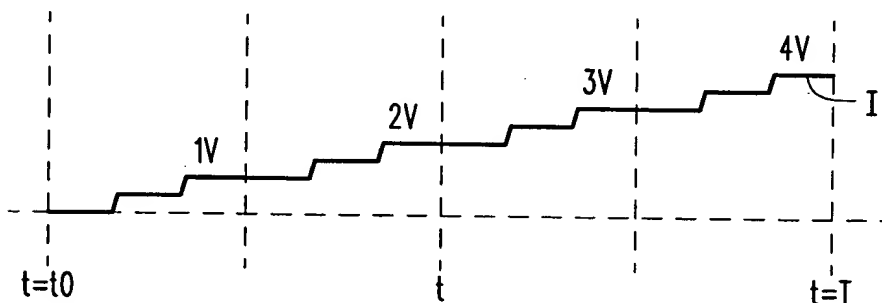


FIG. 5B

Related Art

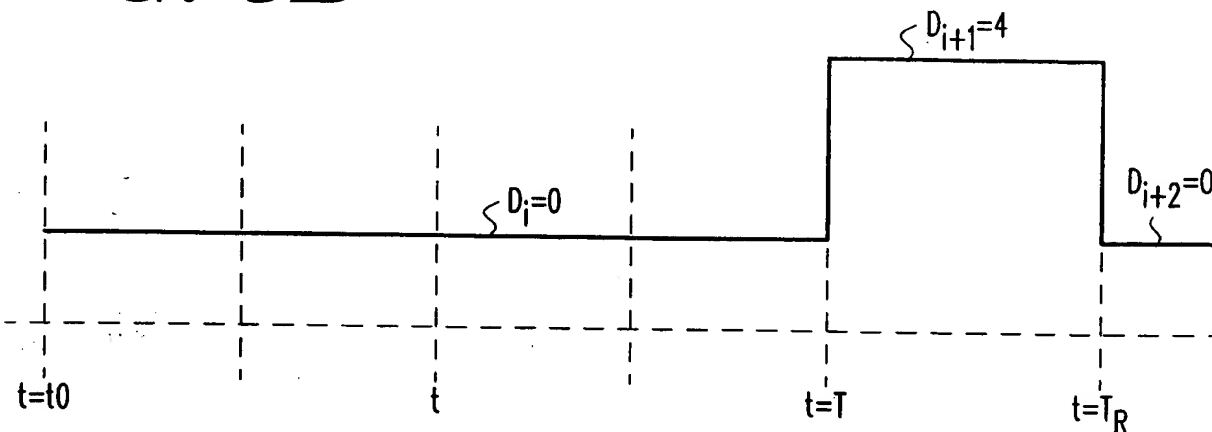


FIG. 5C

Related Art